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24 September 1964

MEMORANDUM FOR THE RECORD

DATE: 18 September 1964

PLACE:

25X1A

ATTENDEES:

SUBJECT: The Modified Photomicrographic Enlarger and The
Coherent Light Enlarger

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1. One modified [REDACTED] Photomicrographic Enlarger was available for our inspection. In general, the unit was well constructed and is a definite improvement on the prototype previously demonstrated at NPIC. The working top, or stage, has been coated with white porcelain. This coating has dual advantages in that it prevents scratching of the film and acts as a reflecting surface against which the film can be viewed prior to orienting it under the projection head.

2. An exposure meter has been incorporated into the equipment by means of a beam splitter inserted in the optical path. The light intensity scale graduations, on the model demonstrated, were not properly calibrated for the material we were using; however, a calibration adjustment screw is provided. The meter reading permits the first exposure setting to be correct or very nearly so the first time an exposure is made.

3. The electrical circuit used to expose the film failed to function during the initial demonstration. The trouble was quickly traced to a faulty crimp connector. These connectors will be reinforced with solder on the three units being delivered to NPIC.

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4. A lengthy discussion was held with [REDACTED] concerning coherent light. Our primary interest was in the problems that had been uncovered during the development of their laser powered coherent light enlarger and upon their specific solutions to these problems. This information was needed as background data to be utilized in formulating a decision as to whether to continue, redirect or terminate PAR's 216 and 217 under Contract [REDACTED]

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Development Branch, P&DS

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Declass Review by NIMA/DOD

GROUP 1
Excluded from automatic
downgrading and
declassification